



# Dongfeng Cummins Curve and Datasheet

Engine Type: ISDe230 30(Truck)

Curve Number: FR92157



# Dongfeng Cummins Engine Co.,Ltd

## Engine Performance Curve FR92157

### EURO 3

Engine Model: ISDe230 30

Engine Configuration: D313003BX03

Advertised Power: 169 kW @ 2500 rpm

CPL: 1995

230 PS @ 2500 rpm

Peak Torque: 900 N.m @ 1400 rpm

Displacement: 6.7L

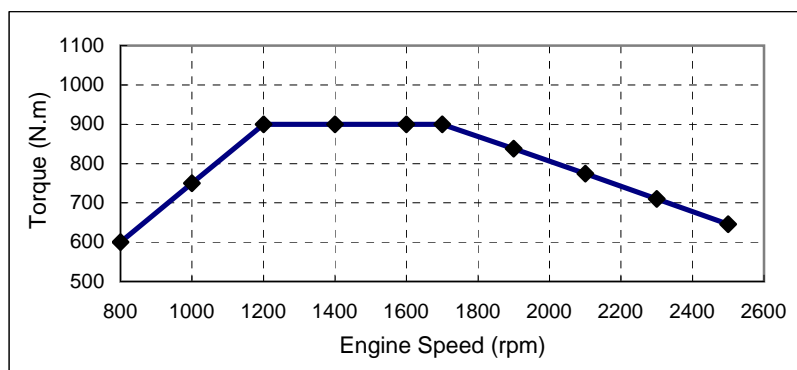
Bore: 107 mm

Aspiration: Turbocharged & Charge Air Cooled

Cylinders: 6

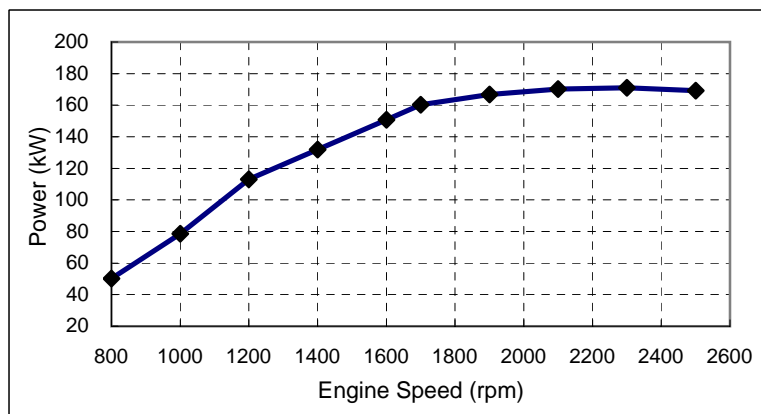
Stroke: 124 mm

Fuel System: Bosch (HPCR)



### Torque

rpm	N.m
800	600
1000	750
1200	900
1400	900
1600	900
1700	900
1900	838
2100	774
2300	710
2500	646



### Power

rpm	kW
800	50
1000	79
1200	113
1400	132
1600	151
1700	160
1900	167
2100	170
2300	171
2500	169

Performance data shown is nominal, and is to 80/1269/EEC(as amended) conditions of 990mbar barometric pressure and 25 deg C air intake temperature.

All data are based on the engine operating with fuel system, water pump, lubricating oil pump and with inle restriction and exhaust restriction at or below datasheet limits. Not included are compressor,fan,alternator, optional equipment and driven components.



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### General

Certification: GB 17691—2005  
Compression Ratio: ..... 17.3:1

### Air Intake System

Max. temperature rise between ambient air and turbo air inlet: ..... - °C 15  
Max. intake restriction with dry type air cleaner, with clean filter  
Medium Duty: ..... - kPa 2.9  
Heavy Duty: ..... - kPa 3.7  
Max. intake restriction with dirty filter: ..... - kPa 6.2

### Charge Air Cooling

Max. temperature rise between ambient air and intake manifold: ..... - °C 30  
Max.  $\Delta P$  between turbo out and manifold in: ..... - kPa 13.5  
Intake pipe size normally acceptable: ..... - mm dia 65

### Exhaust System

Max. back pressure imposed by complete exhaust system: ..... - kPa 10  
Exhaust pipe size normally acceptable: ..... - mm dia 75

### Cold Start Performance

Min. unaided cold start temperature: ..... -12 °C @120 average rpm  
Min. aided cold start temperature: ..... -24 °C @120 average rpm

### Performance Data

Idle Speed: ..... - rpm 600 - 800  
Maximum no load governed speed: ..... - rpm 2850  
Maximum over speed capability(15secs max.): ..... - rpm 4200  
Maximum altitude for continuous operation: ..... - m TBD  
Clutch engagement torque at 800rpm: ..... - N.m 610  
When using exhaust brakes:  
Exhaust pressure, at 2850rpm, at turbocharger outlet, must not exceed: ..... - kPa 413  
Approximate engine retardation: ..... - kW TBD

Engine Speed RPM	Oil Pressure kPa	Air to Turbo m³/min	Air From Turbo		Exhaust Flow m³/min	Exhaust Temp °C	Fuel Consumption kg/hr	Coolant Flow l/min	Heat Rejection		Friction Power kW
			Flow kg/min	Pressure Pa					Coolant kW	Air kW	
2500	302.8	14.95		150.7		439.661	220	255.95	82.8	27.6	38.0
2300	300.9	14.34		154.3		501.4		235.8333	85.7	26.9	30.6
1400	205.7	8.62		130.4		519.06		145.7833	65.0955	15.8324	16.7

All values within  $\pm 5\%$

Base engine data refer to Datasheet D313003BX03

All data subject to change without notice. Dongfeng Cummins Engine Co., Ltd